

ABSTRACT

5 The present invention provides methods which permit animal owners or food producers to readily establish the vaccination status of animals. Specifically, the present invention provides a method for determining whether an animal has been vaccinated with a vaccine which includes an immunogen and a substantially non-toxic rmLT by detecting the presence of antibodies or immune cells in an animal that are specific for the rmLT. Furthermore, the present invention provides a
10 method for marking a vaccine composition by including in the vaccine composition a substantially non-toxic rmLT and detecting the presence of antibodies or immune cells in animals administered with such vaccine composition. Moreover, the present invention provides a method for enhancing the immunoprotective effects of an immunogen in a vaccine by including in the vaccine a substantially non-toxic rmLT. Vaccine compositions containing an immunogen, a substantially
15 non-toxic rmLT and an oil-in-water emulsion adjuvant such as AMPHIGEN[®], are also provided.